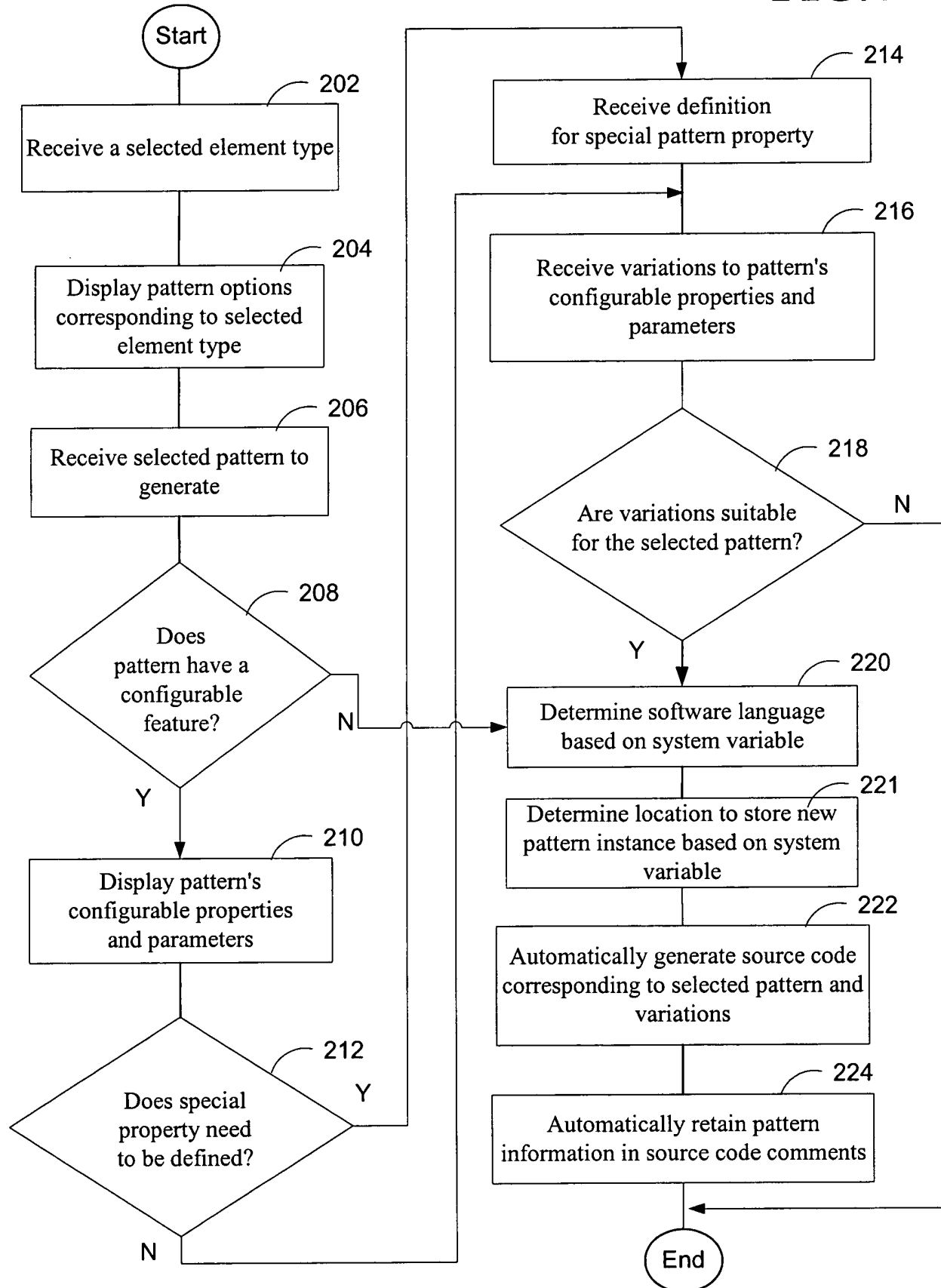
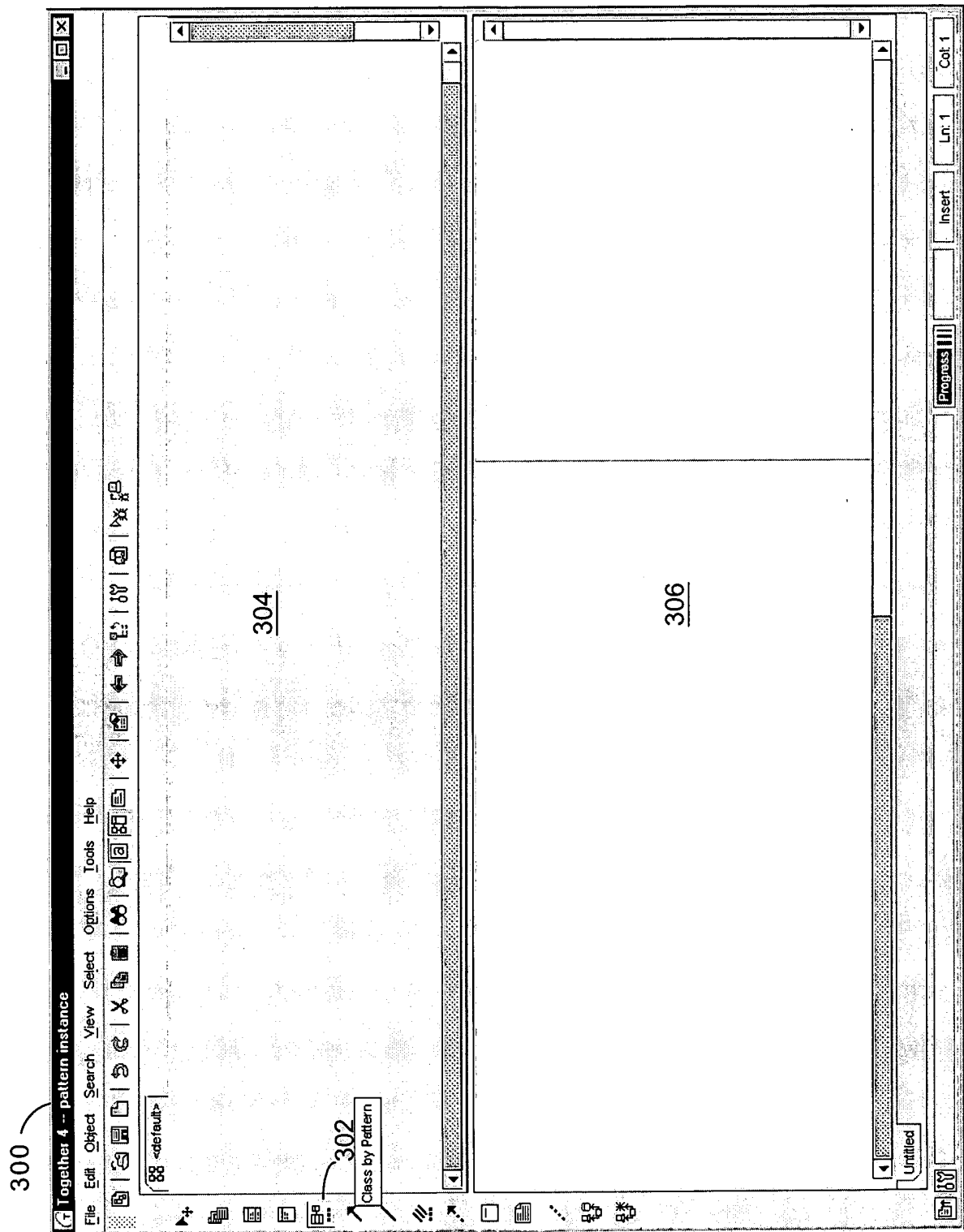


FIG. 2



THE UNIVERSITY OF CHICAGO

FIG. 3



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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FIG. 4

400

402

404

FIG. 4

Choose Pattern - Singleton - Pattern properties

Pattern

Patterns

- Coad Components
- HP E Speak
- Coad Classes
- GoF
- Abstract Factory
- Adapter
- Chain of Responsibility
- Composite
- Decorator
- Factory Method
- Observer
- Proxy
- Singleton
- State
- Visitor
- BEA WLE
- Bean
- JSP
- Stub Implementation

400

402

404

Name	Value
Singleton	Singleton
Singleton factory	Singleton
Unique instance attribute	instance
Instance method	getinstance
Generate thread safe code	<input checked="" type="checkbox"/>
Create pattern links	<input checked="" type="checkbox"/>

Description

Singleton pattern

Introduction

Ensure a class only has one instance, and provide a global point of access to it.

Participants

Previous Next Finish Cancel Help

FIG. 7

700

Choose Pattern - Abstract Factory - Concrete products for ConcreteFactory

Pattern

Patterns

Coed Components

HP E Speak

Coed Classes

Gof

Abstract Factory

Adapter

Chain of Responsibility

Composite

Decorator

Factory Method

Observer

Proxy

Singleton

State

Visitor

BEA WLE

Bean

JSP

Stub Implementation

Name

Value

Abstract factory

AbstractFactory

Abstract product

AbstractProduct

Concrete factory

ConcreteFactory

Copy documentation

☐

Create pattern links

☒

Description

Abstract Factory pattern

Introduction

Provides an interface for creating families of related or dependent objects without specifying their specific classes.

Participants

Product (AbstractProduct) for Factory (ConcreteFactory) is not defined.

< Previous

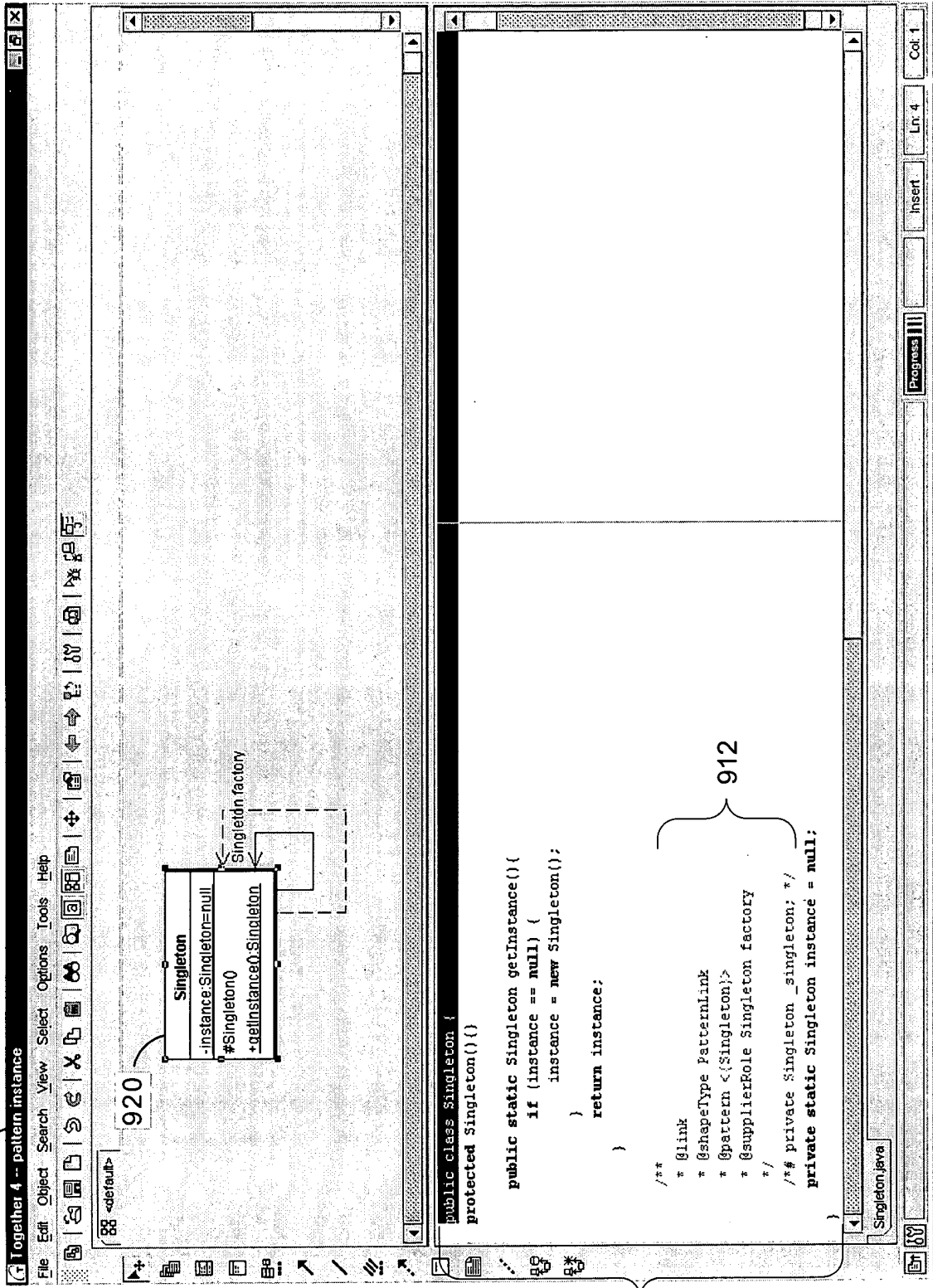
Next >

Cancel

Help

FIG. 9

900



902

[illegible]

FIG. 12

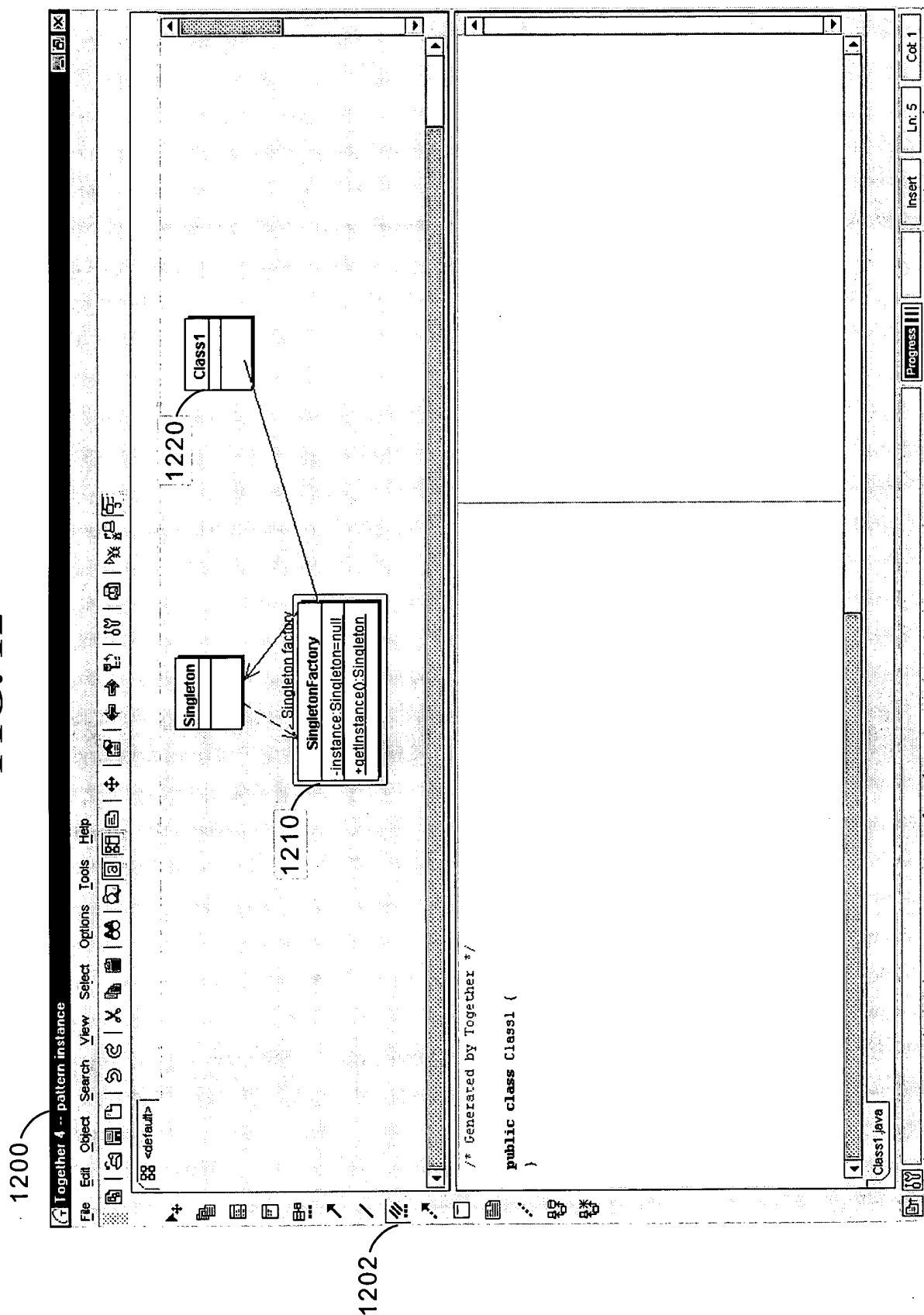


FIG. 13

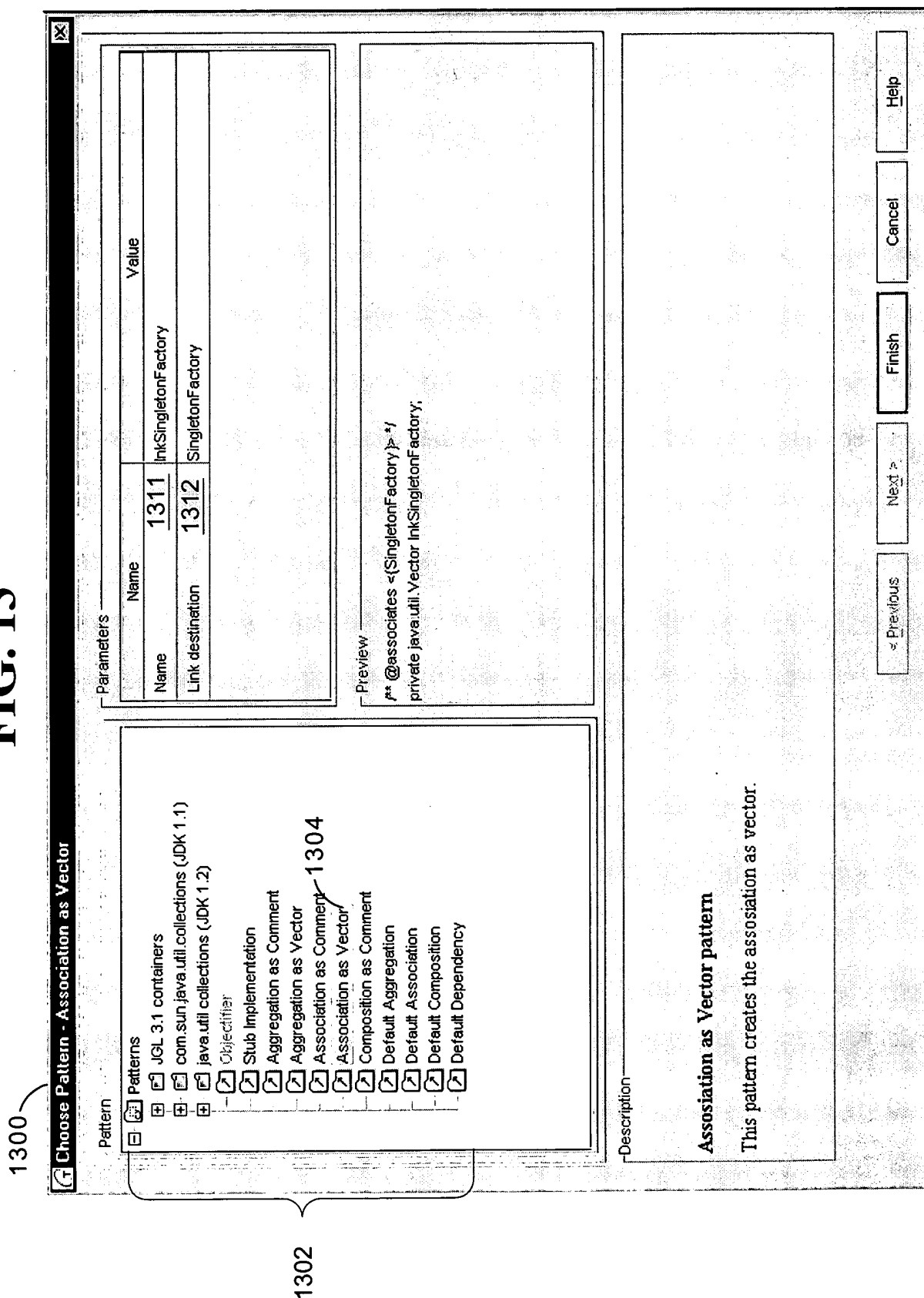


FIG. 15a

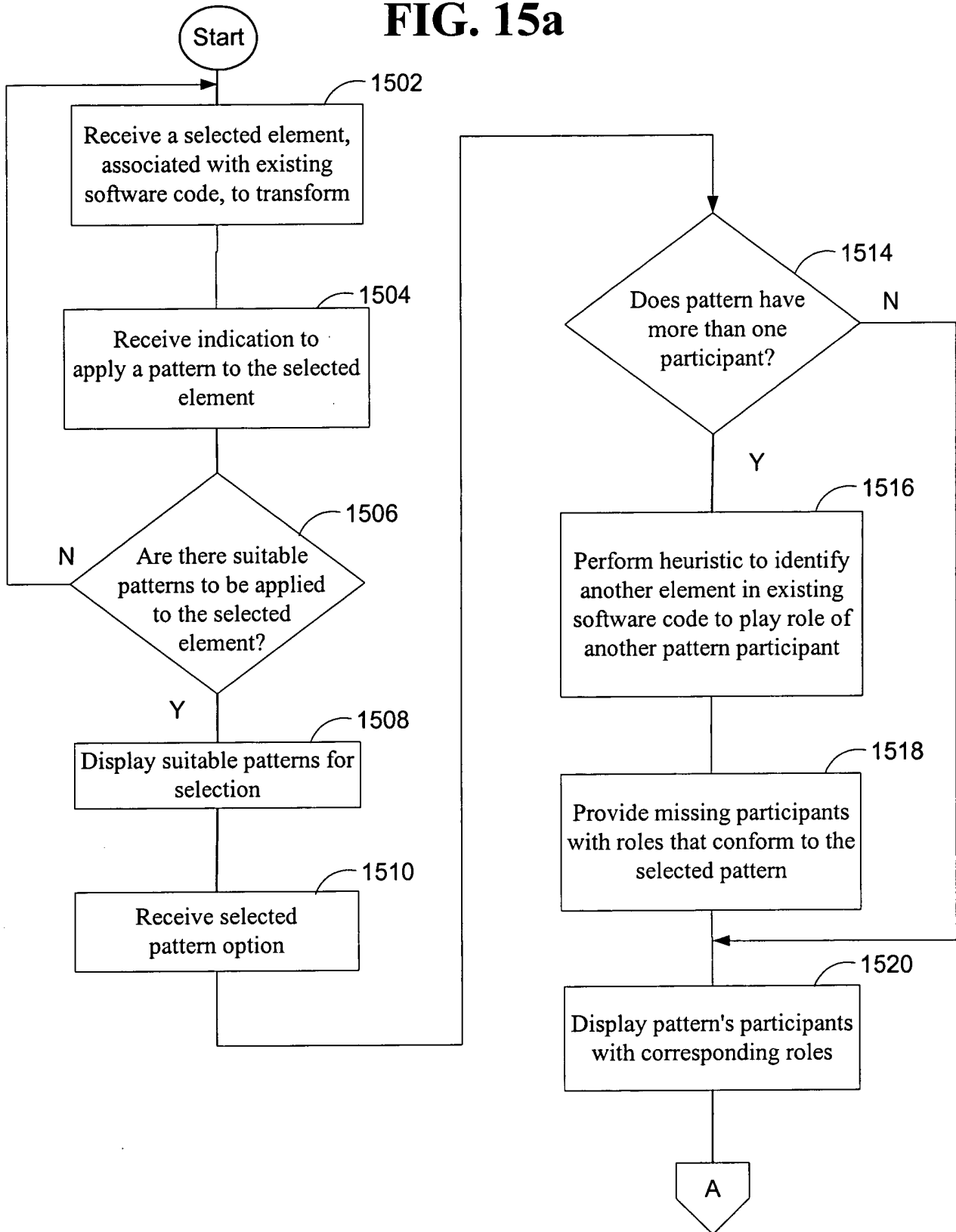


FIG. 15b

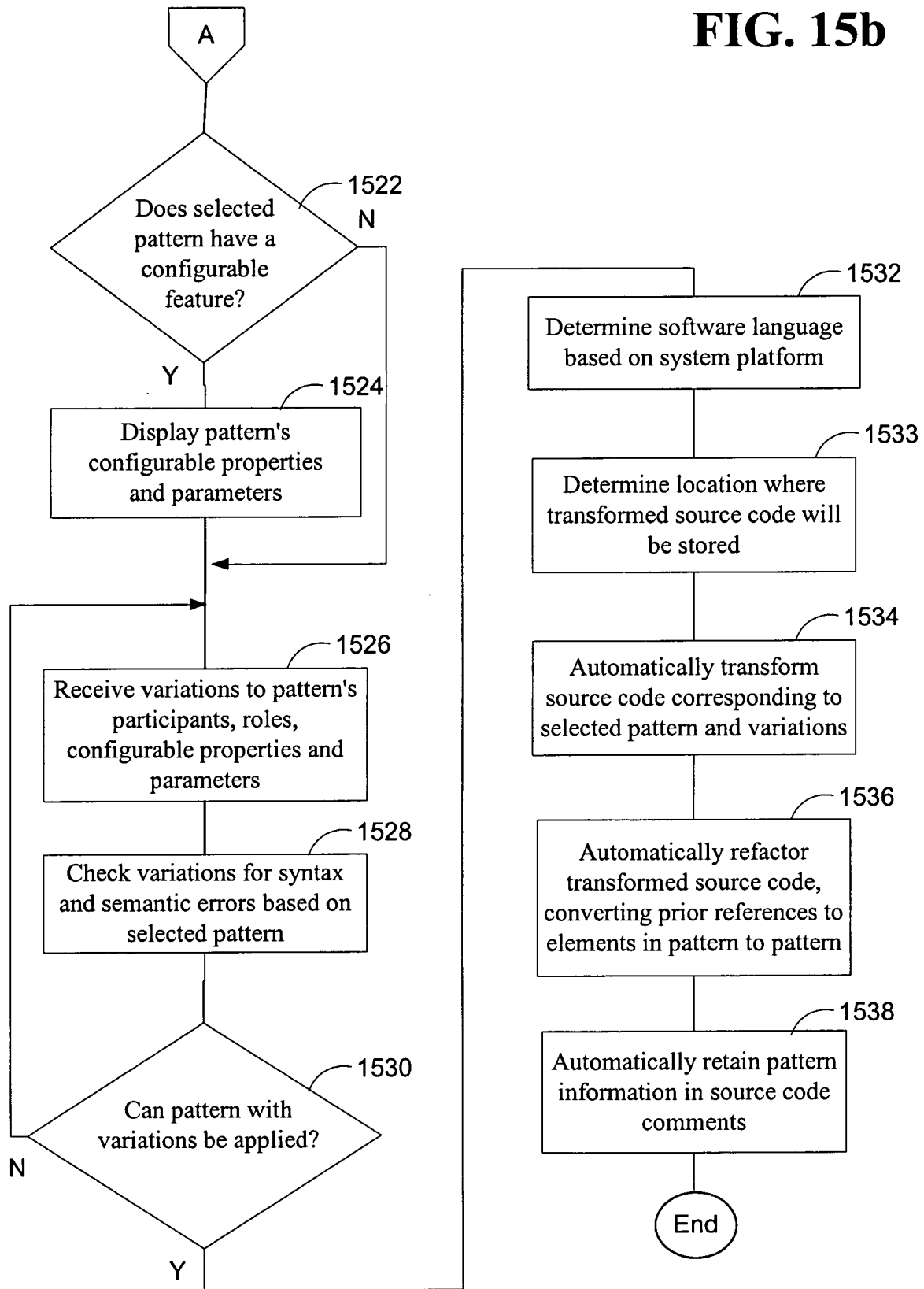
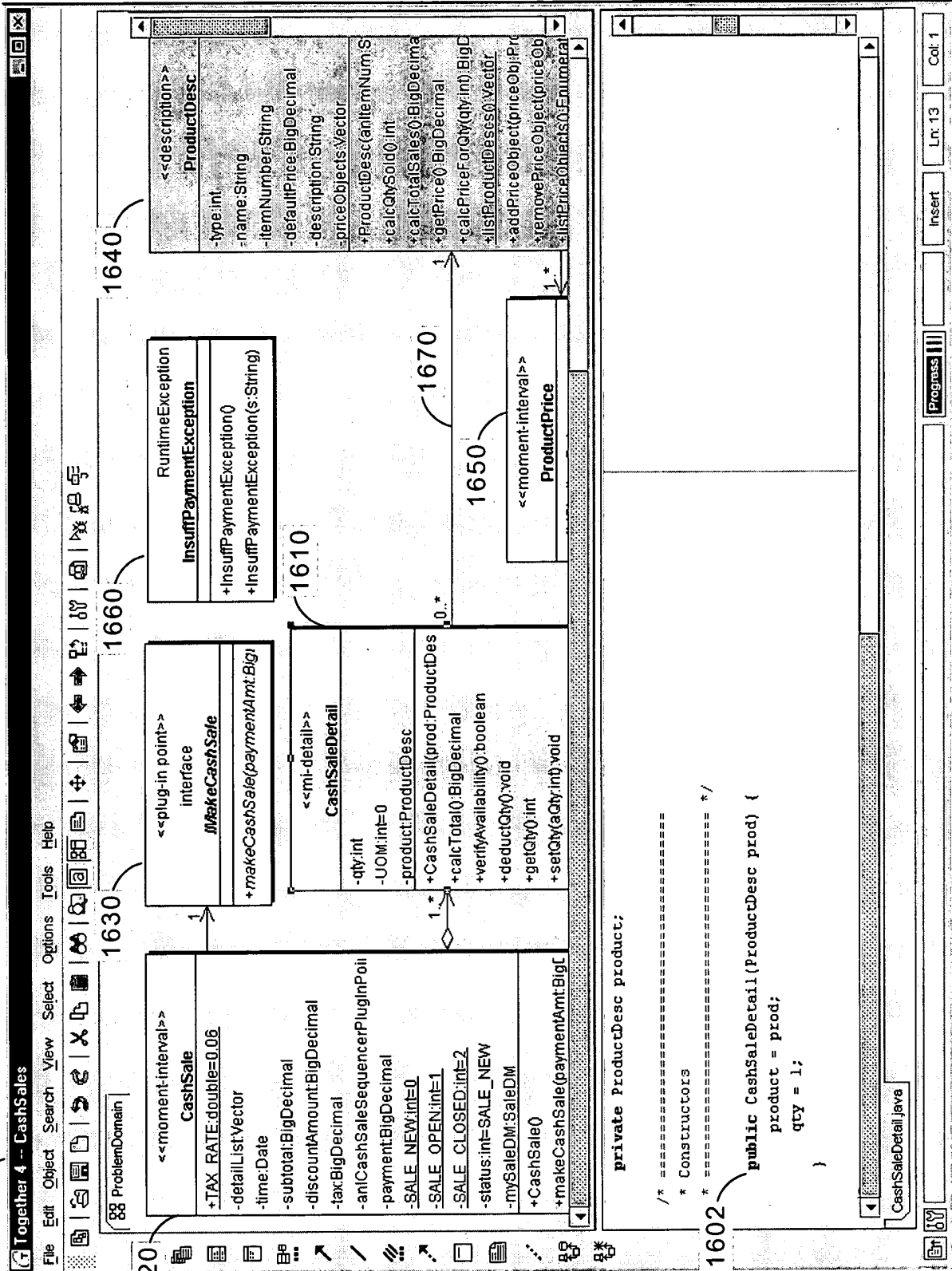


FIG. 16

1600



1620

1670

1650

1602

FIG. 17

1700

Choose Pattern - Singleton - Pattern properties

Patterns

Coard Components

HP E Speak

Coard Classes

Gof

Abstract Factory

Adapter

Chain of Responsibility

Composite

Decorator

Factory Method

Observer

Proxy

Singleton

State

Visitor

BEA WLE

Bean

JSP

Stub Implementation

1704

1702

Singleton

Name

Value

Use selected class as

Singleton

1730

Singleton

1711

ProblemDomain.CashSaleDetail

1715

Singleton factory

1712

ProblemDomain.CashSaleDetail

1716

Unique instance attribute

instance

Instance method

getInstance

Generate thread safe code

☐

Create pattern links

☒

1710

1720

Description

Singleton pattern

Introduction

Ensure a class only has one instance, and provide a global point of access to it.

Participants:

Previous

Next >

Cancel

Finish

Help

FIG. 18

1800

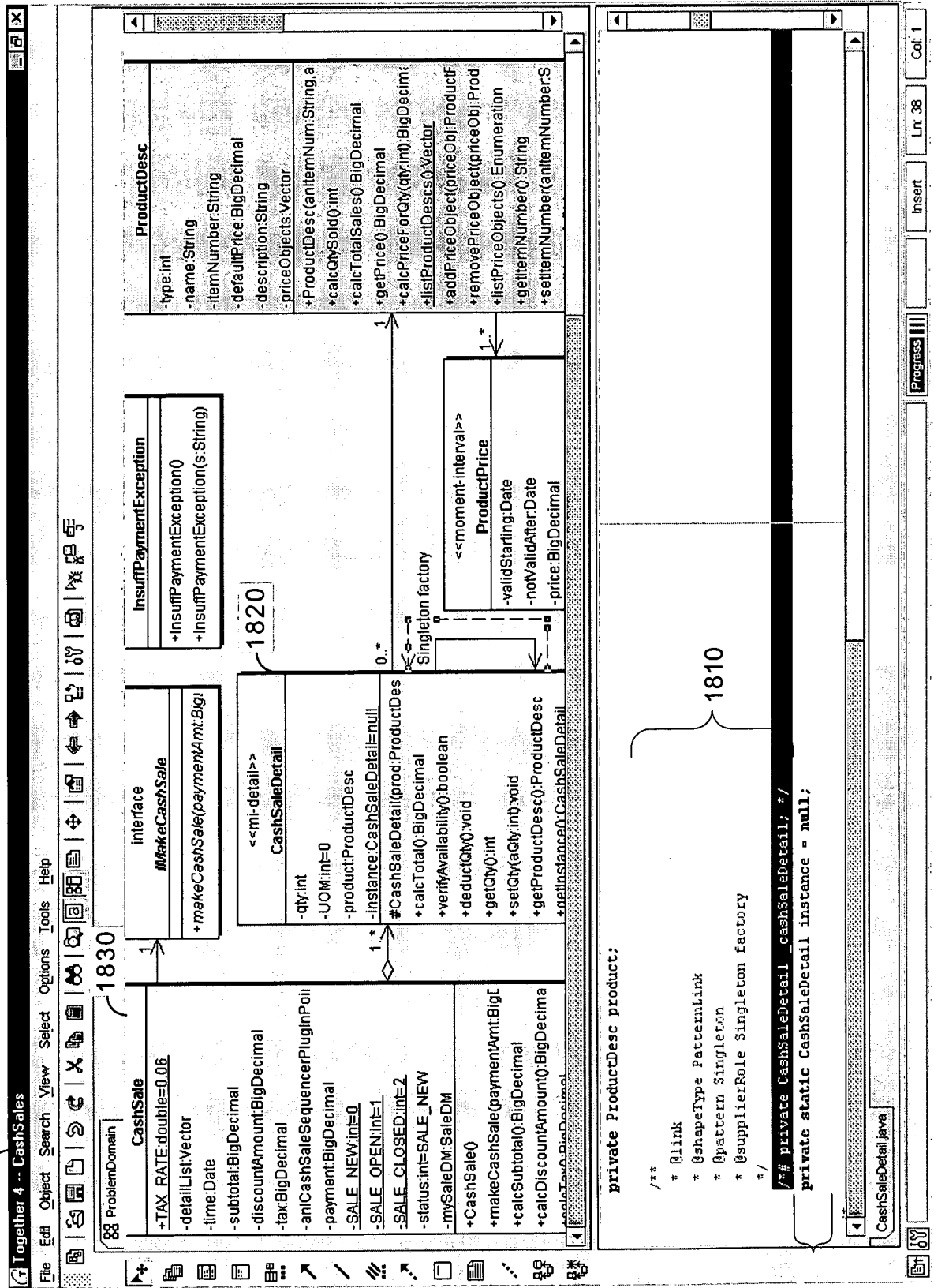


FIG. 20

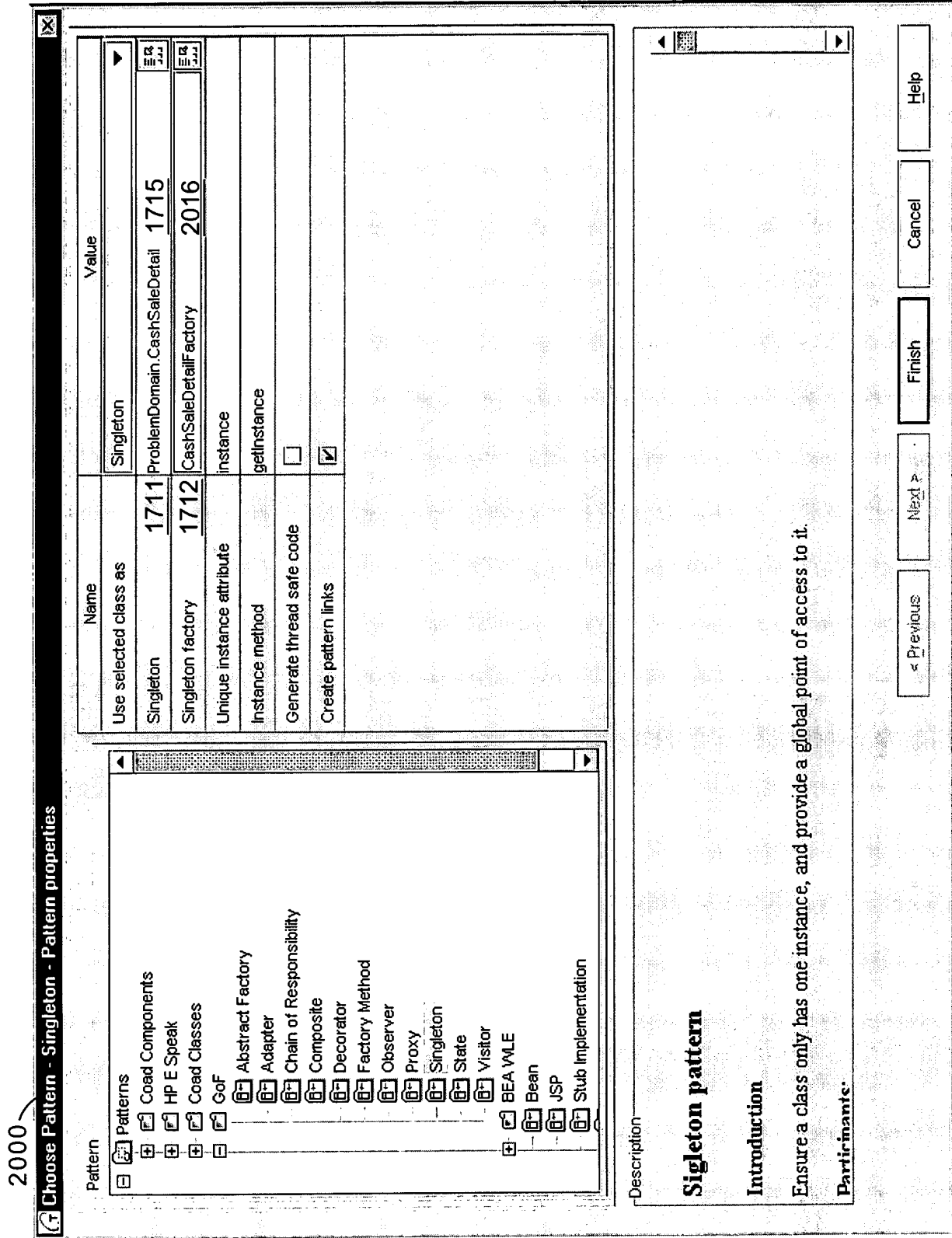
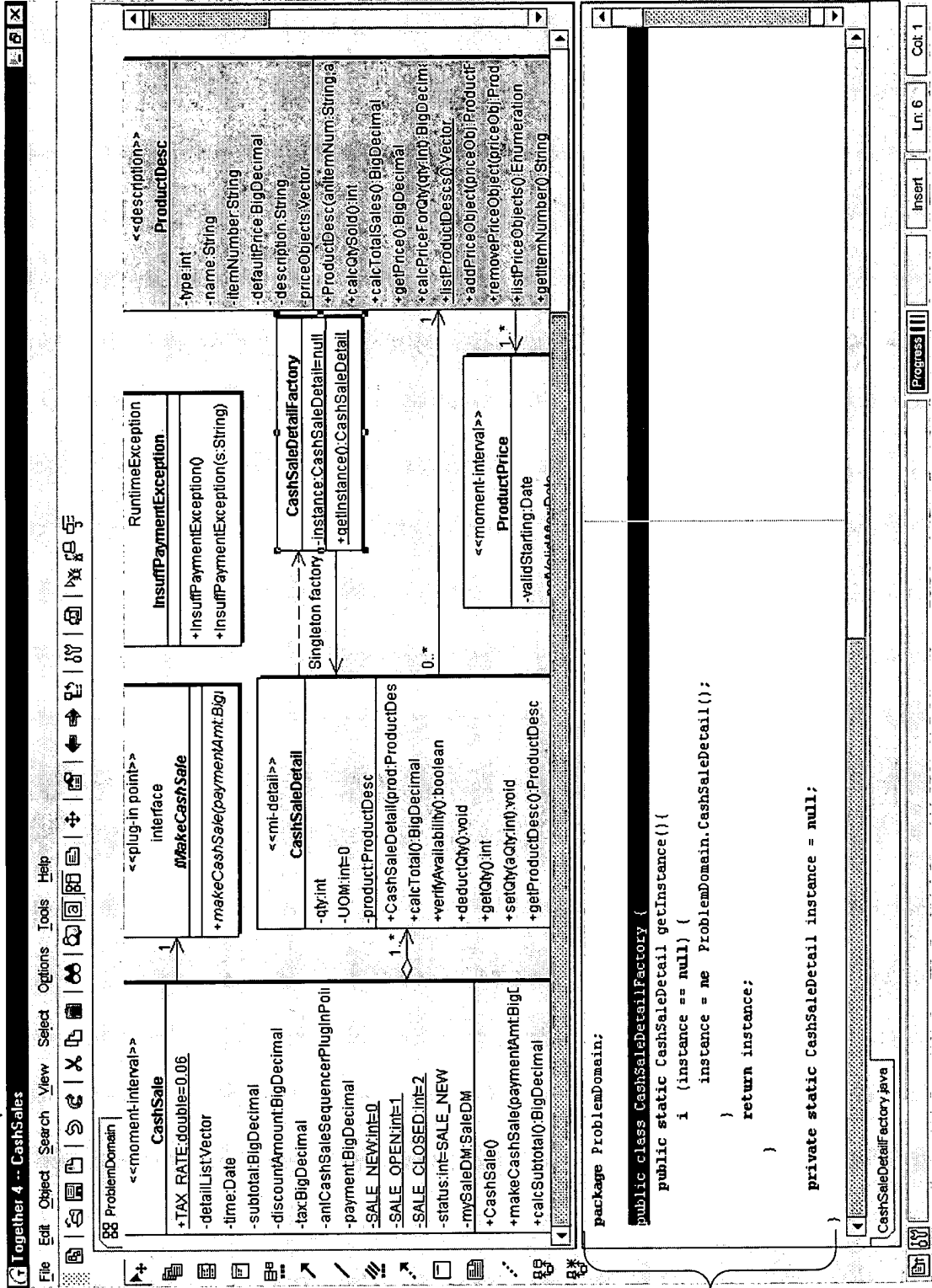


FIG. 22

2200



2202

FIG. 23

2300

Choose Pattern - Observer - Pattern properties

Pattern

Patterns

Coad Components

HP E Speak

Coad Classes

GoF

Abstract Factory

Adapter

Chain of Responsibility

Composite

Decorator

Factory Method

Observer

Proxy

Singleton

State

Visitor

BEA WLE

Bean

JSP

Stub Implementation

Use selected class as

Subject

ProblemDomain.CashSaleDetail

Observer

Concrete subjects

Concrete observers

Copy documentation

Create pattern links

Name

Value

2302

Subject

Observer

Concrete subjects

Concrete observers

Copy documentation

Create pattern links

Description

Observer pattern

Introduction

Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically

< Previous

Next >

Finish

Cancel

Help

FIG. 24

2400

Choose Pattern - Aggregation as Comment

Pattern

Patterns

link

JGL 3.1 containers

com.sun.java.util.collections (JDK 1.1)

java.util collections (JDK 1.2)

Objectifier

Stub Implementation

Aggregation as Comment

Aggregation as Vector

Association as Comment

Association as Vector

Composition as Comment

Default Aggregation

Default Association

Default Composition

Default Dependency

member

Property

Stub Implementation

Parameters

Name	Value
Name	product
Link destination	ProblemDomain.ProductDesc

Preview

This is the item being scanned in/sold. This object holds all the pertinent details.

* @link aggregation
* @clientCardinality 0..*
* @supplierCardinality 1..1
#ProblemDomain.ProductDesc product,/

Description

Aggregation as Comment pattern

This pattern creates the aggregation as comment.

< Previous

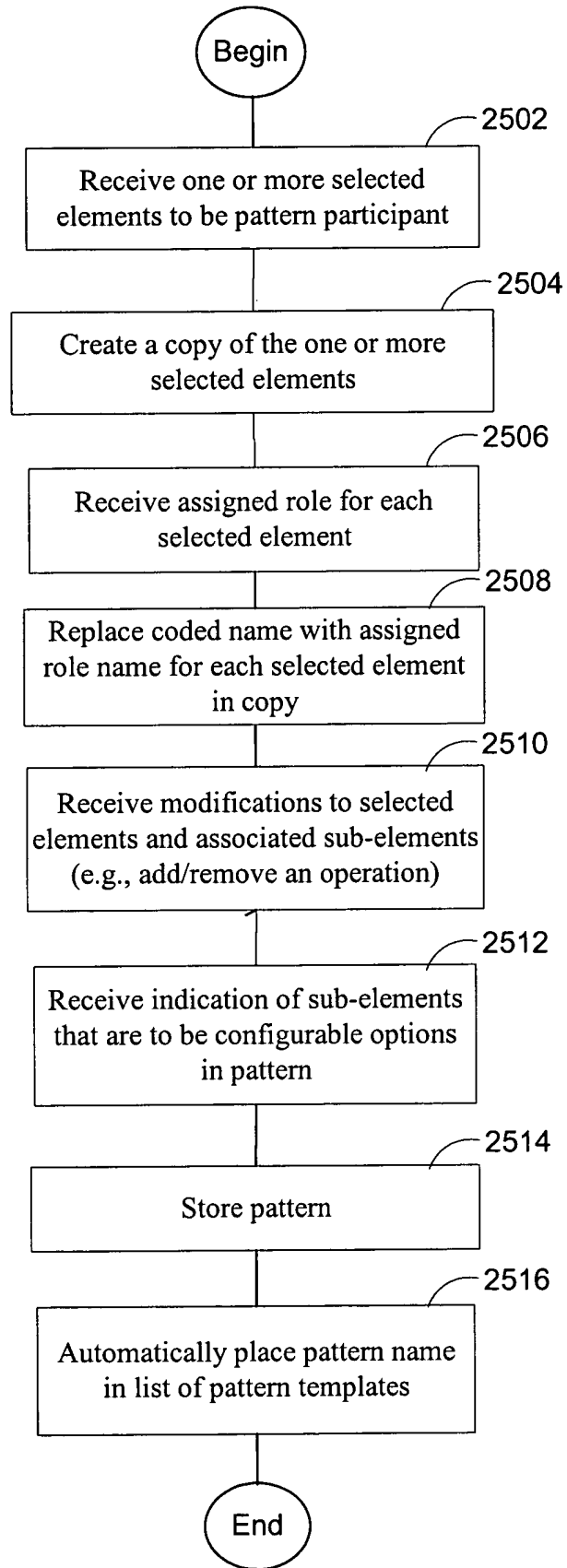
Next >

Cancel

Help

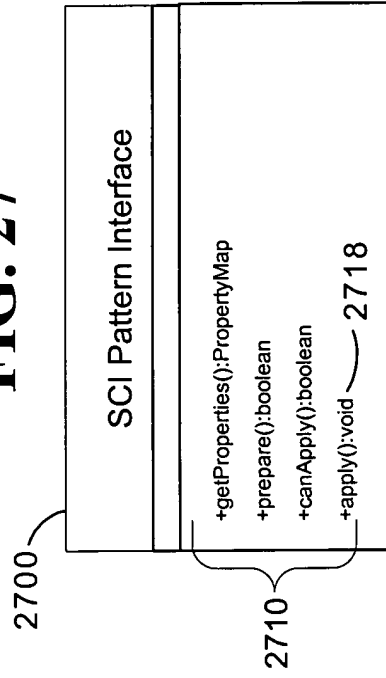
2404

FIG. 25



2025 RELEASE UNDER E.O. 14176

FIG. 27



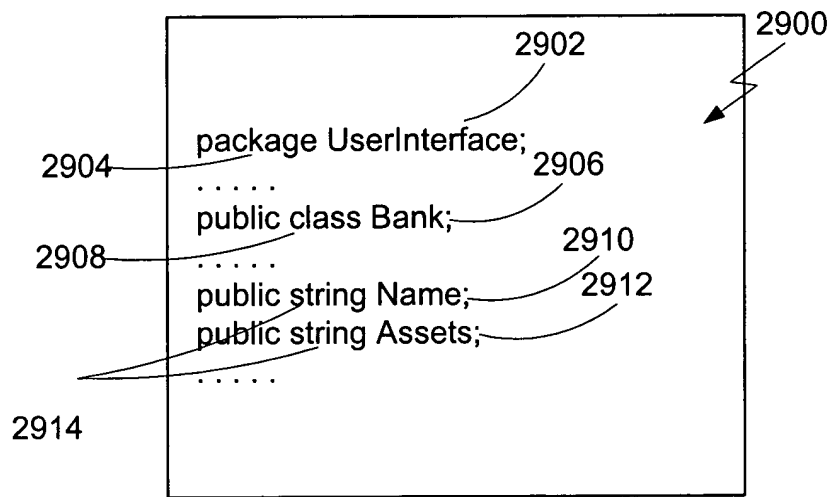
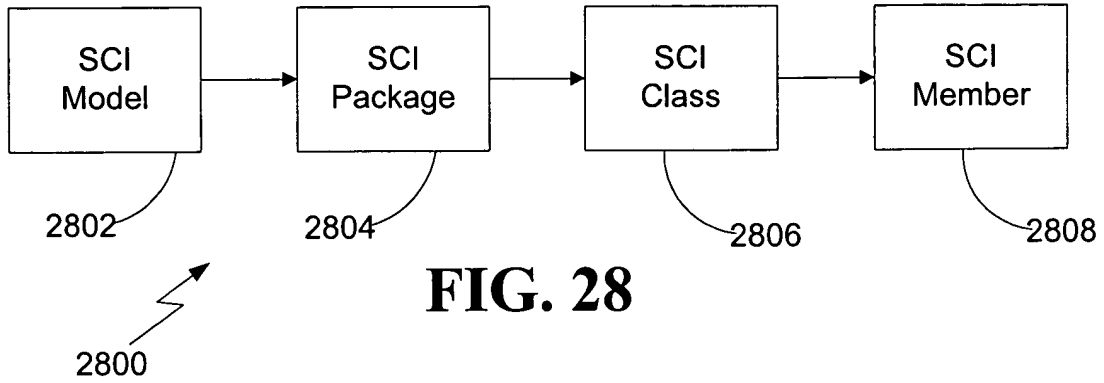


FIG. 29

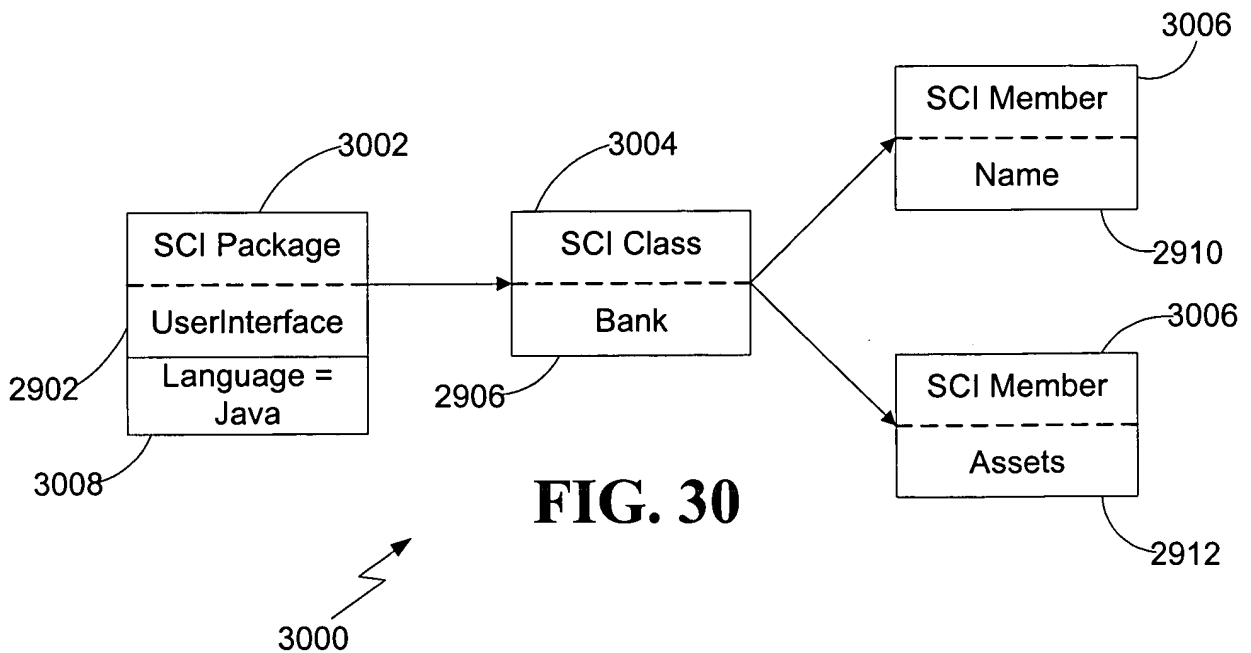


FIG. 30

FIG. 31

